LandFlow Subcommittee Notes
June 20, 2017

Water Intercept – 2nd Subcommittee Meeting

- Elicit community's input for major potential solutions/actions for key water intercept actions that contribute to a strong, plausible RFP action plan
    - Draft of mail possible actions
    - Draft of potential data gaps that support any main actions

Order of Conversations –Facilitated by Romi Goldsmith

I. Gather
- What are your best ideas?
- What are your proposals for major actions that would slow the land flow and deal with the water?

II. Select
- Vote by sticky dot

III. Assess
- Is this a speculative action? What's missing?
- Is this a grounded proposal? What's the grounding/evidence?

I. SUGGESTIONS GATHERED AND ATTENDEES CAST VOTES FOR TOP 4 IDEAS

1. Analysis of the water coming from the wellheads along Burma Road to determine exactly where the water is coming from **(VOTES=1)**
2. Engineering and geographical analysis of water thing **(VOTES=2)**
    - Where from?
    - What to do?
3. When we address water thing (be) mindful of Nature Preserve and preserving that (ex. Quail guzzler) **(VOTES=3)**
4. On the surface re-establish storm drain system (and maintain it/adjust yearly) **(VOTES=6)**
    - Steel tube under PVDS so water flow can go downhill into ocean
5. Draining line past road to ocean that will survive movement of slide
6. Full hydrology study of area **(VOTES= 17)**
    - storm drainage master plan for water to go where we want it to be (not where we want it to be)
    - look at water/sewer/storm drain lines to make sure water tight (ex. double-piped)

7. JPL/NASA discusses/possible mediation techniques that gather data and monitor ground movement; Join NASA and our effort-using most advanced technology **(VOTES=2)**

8. Encouraging plants to survive to control water (ex. Sage scrub)
9. Lining the canyon (ex. ___Alta Mira Canyon)
10. Weirs/Dams/Catch basins at the top

11. Re-vegetate watersheds **(VOTES=2)**

12. Between Alta Mira and slide
    - another canyon-Artesian (this part of hydrology study and doing something about it
    - Kelvin Canyon stream not allowed to go into slide
    - You can see water flow (surface, storm, underground water)
    - Opening at the bottom of Alta Mira Canyon

13. Septic tanks Rollin Hills **(VOTES=1)**

- Get the amount of water on north side of Crest Road from Cal Water; how much is being used 3.5 m gallons per year-south side homes
- Information-Paint brush canyon-water entering slide:
    - Lemonade berry brush grows all over
    - Catch basin other side Burma road- heavy rainfall makes the catch basin exceed capabilities (6-8 ft. deep silt); Grand Canyon – 8 ft. wide/2-8ft. deep to 10 ft. in places to landslide sink
    - Kelvin Alta Mira Canyon /Klondike Canyon

14. Use French drains at various canyons and carry down to catch basins then to the ocean **(VOTES=4)**

15. Explore possibility of replacing Rolling Hills (RH) septic and sewer system **(VOTES=2)**

- Reaching out to RH (mutual benefit)
- Consider litigation
- What other water from RH?
    - Trails?
    - Street?

16. Surface water/fissures at top hill-hydrological study **(VOTES=1)**

17. Coffer dams at head of canyons **(VOTES=3)**

18. Evaluate whether water into Alta Mira shows up in PB
19. Put existing drainage system back and do the maintenance
20. Veteran Preserve restrictions within preserve
21. Understand slide moves in different ways

22. Capture water before it gets into slide **(VOTES=7)**

23. Work with the Conservancy to do it right at front end **(VOTES=2)**

24. At toe of slide dig to bentonite layer to hold back weight of slide to make dam **(VOTES=1)**

Other Notes

1. Full hydrology student by experts
    - Whole and flow
    - Line item to complete study
    - Parallel with other actions (include drainage study we have)
2. Capture water before it gets into slide
3. Reestablish storm drain-piping so water can flow into ocean
    - Speculative cost
4. Coordinate with Preserve/conservancy
    - Grounded in terms of concept

DATA GAPS-Need more data for storm drain system